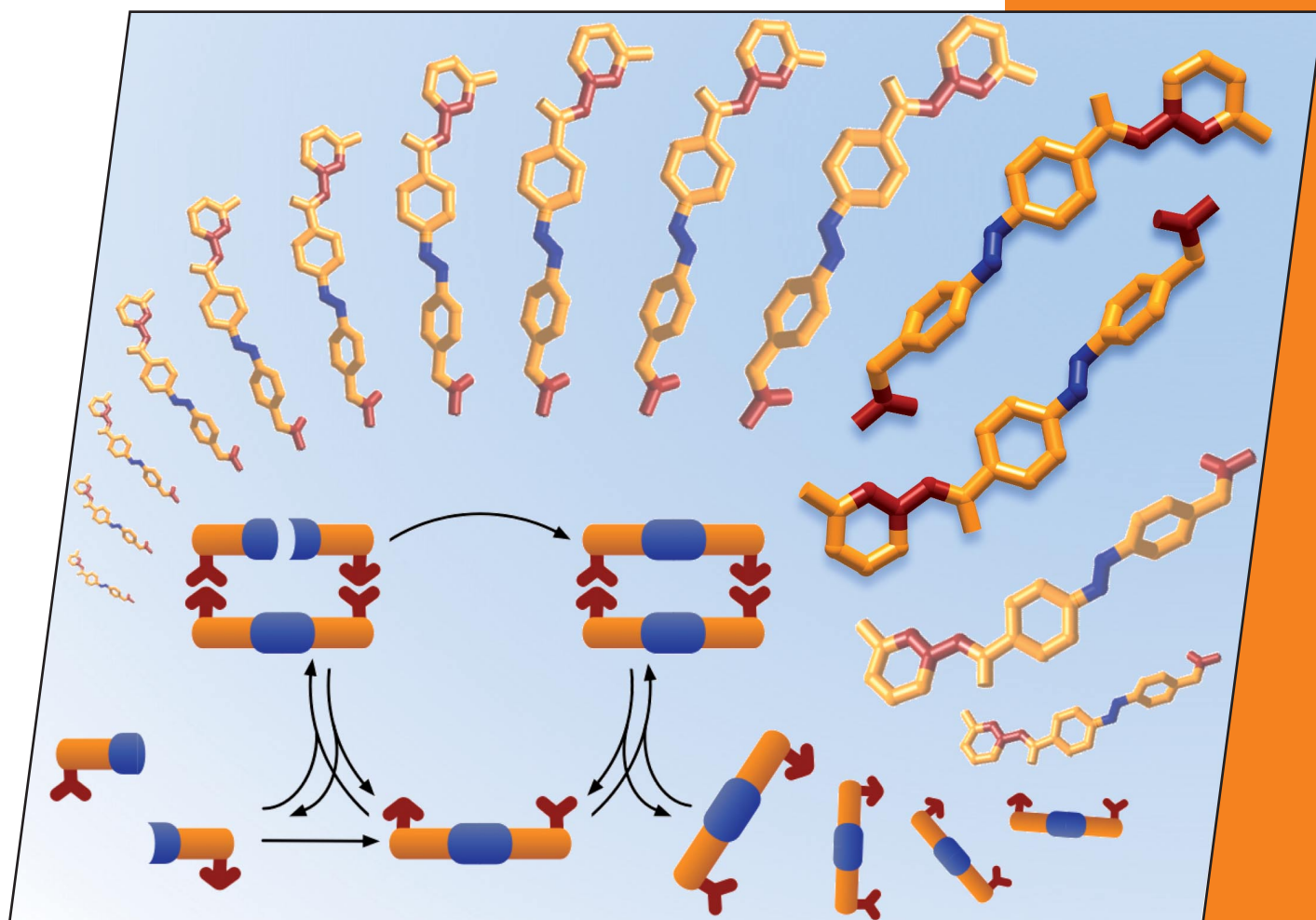


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Cover Picture / Microreview

Annick Vidonne and Douglas Philp
Chemistry of Artificial Replicators

A Journal of



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A union formed by chemical societies in Europe (ChemPubSoc Europe) has taken the significant step into the future by merging their traditional journals, to form two leading chemistry journals, the *European Journal of Inorganic Chemistry* and the *European Journal of Organic Chemistry*. Three further members of ChemPubSoc Europe (Austria, Czech Republic and Sweden) are Associates of the two journals.

COVER PICTURE

The cover picture shows in the lower left corner the schematic representation of a recognition-mediated autocatalytic cycle that is capable of producing multiple copies of a single molecule in a template-directed manner. The molecular recognition inherent in this cycle (red) leads to the accelerated formation of an imine bond (blue) between two building blocks through a ternary complex that renders the reaction between them pseudointramolecular. After bond formation, the product duplex dissociates and returns two molecules to the start of the autocatalytic cycle. The structure in the upper right corner represents the product duplex as determined by single-crystal X-ray diffraction ([18·18], taken from ref.^[28]). The multiple copies of the reaction product shown highlight the exponential increase in the concentration of the product inherent in self-replicating systems. Details are presented in the Microreview by A. Vidonne and D. Philp on p. 593ff.

